PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 01649/1			FOR FURTHER ACTION See Form PCT/IPEA/416						
,			International filing date 15.12.2004	(day/month/year)	Priority date (day/month/) 19.12.2003	rear)			
i .	International Patent Classification (IPC) or national classification and IPC C07D401/14, A61K31/495, A61P29/00								
1	Applicant PHARMACIA CORPORATION								
1.	. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2.	This REPORT co	onsists of a total o	of 6 sheets, including t	his cover sheet.					
3.	This report is als	o accompanied by	y ANNEXES, comprisi	ng:		-			
	a. D sent to th	e applicant and to	the International Bure	eau) a total of sheets, as	follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This report conta	ins indications rel	ating to the following it	tems:					
	☑ Box No. I	Basis of the opin	ion						
}	☐ Box No. II	Priority							
	Box No. III	Non-establishme	ent of opinion with rega	ard to novelty, inventive s	tep and industrial applica	ability			
	☐ Box No. IV	Lack of unity of it	nvention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				al				
	☐ Box No. VI	Certain documen							
	☐ Box No. VII		n the international app						
	☐ Box No. VIII	Certain observati	ions on the internation	al application					
Date	Date of submission of the demand			Date of completion of this	report				
03.0	03.06.2005			11.11.2005					
	Name and mailing address of the international preliminary examining authority:			Authorized Officer		Andread Personal			
_	European F D-80298 M	Patent Office unich		Fritz, M					
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_	· un. T75 03			Telephone No. +49 89 239	13-	andly .			

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IAP20 FCC O POTATIO 19 JUN 200h
International application No.
PCT/IB2004/004187

INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

_	Box No. I	Basis of the report					
1.		With regard to the language, this report is based on the international application in the language in which it wa filed, unless otherwise indicated under this item.					
	☐ This re which	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:					
	☐ pu	ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)					
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	Description	n, Pages					
	1-33	as originally filed					
	Claims, Nu	mbers					
	1-13	as originally filed					
	Drawings,	Sheets					
	1/5-5/5	as originally filed					
	☐ a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3.	☐ The ar	☐ The amendments have resulted in the cancellation of:					
	☐ the description, pages ☐ the claims, Nos.						
	☐ the drawings, sheets/figs ☐ the sequence listing (specify):						
		/ table(s) related to sequence listing (specify):					
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	☐ the☐ the	description, pages claims, Nos. drawings, sheets/figs sequence listing (specify):					
		rable(s) related to sequence listing (specify):					
	* Tf it	em 4 applies, some or all of these sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/004187

	_						
		x No. III Non-establishment plicability	of op	pinion with regard to novelty, inventive step and industrial			
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international application,					
	×	claims Nos. 12-13					
	because:						
	the said international application, or the said claims Nos. 12-13 with respect to industrial applicability to the following subject matter which does not require an international preliminary examination (specific						
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. could be formed.	e claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion ould be formed.				
		no international search report has been established for the said claims Nos.					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in A C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer reada not comply with the technical requirements provided for in Annex C-bis of the Administrative					
		See separate sheet for further	detai	ls			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/004187

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-13

No: Claims

Inventive step (IS)

Yes: Claims No: Claims

1-13

Industrial applicability (IA)

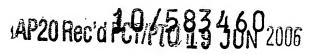
Yes: Claims

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2004/004187

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 12-13 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with re-spect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(i) PCT).

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1: WO A 03/104223

The present application relates to a crystalline form of 2-{4-{3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol (claims 1-5), pharmaceu-tical compositions thereof (claims 6-11) and a method of treatment by administering the above compound (claims 12-13).

For the assessment of the present claims 12-13 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentabi-lity can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

The obviously amorphous form of 2-{4-[3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol is known from ex. 27 according to D1. The crystalline form of this substance is not known.

The subject-matter of claims 1-13 according to the present case is therefore novel in the sense of Article 33(2) PCT.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2004/004187

Closest prior art is D1

To be inventive a chemical compound should

- a. possess a structure that is unexpected
- b. exhibit a use or an effect which is unexpected (Guidelines C-IV, 9.10)
- c. the compound has been prepared by an inventive process, but only in the case where a technical prejudice to its production or unsurmountable difficulties in its production were believed to exist (Guidelines C-IV, 9.8(d))

None of the above requirements are fulfilled in the present case.

An inventive step in the sense of Article 33(3) PCT cannot be acknowledged for the subject-matter of claims 1-13, unless a surprising effect is demonstrated which would serve to distinguish the crystalline form of 2-{4-[3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol further from its amorphous form dis-closed in ex. 27 of D1.

Further objections:

The term "about" used throughout the claims is vague and unclear and leaves the rea-der in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT).